

L 01932-57 EWT(1)/EWT(m) DJ/JD

ACC NR: AR6022146

SOURCE CODE: UR/0216/66/000/002/B121/B121

AUTHOR: Dudnikov, V. T.; Boykov, A. D.

TITLE: A hydraulic copying system with a second-order floating control and a procedure for selecting its parameters

SOURCE: Ref. zh. Tekhn mashinostr, Abs. 2B896

REF SOURCE: Tr. Kuybyshevsk. aviat. in-t, vyp. 20, ch. 1, 1965, 135-158

TOPIC TAGS: automatic copying system, automatic control system, floating control, copying system

ABSTRACT: This article presents design and structural diagrams of a system which can be applied to machining of a single-coordinate part copying system by master form, and the equations for the system and its elements: the section of the hydro-amplifier component, and the adjusting element. The quality of the automatic copying system is analyzed. It has been established that the automatic copying system has satisfactory amplitude and phase stability and high operational capacity. The amplification coefficient of an open system numerically surpasses second-order floating control electric automatic copying systems. The selection technology is described of

Card 1/2

UDC: 621. 9. 06-503. 53-822

48B

L 01932-67

ACC NR: AR6022146

the initial parameters of the automatic copying system, its design and adjustment parameters. Orig. art. has: 8 figures, 1 table and a bibliography of 7 reference items. L. Romancheva. [Translation of abstract] [AM]

SUB CODE: 13/

hs

Card 2/2

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0

BULYCHEV, N.A.; KUMINSKIY, N.D.; DUDNIKOV, V.V.; KISELEV, N.A.

Large patterns of frame structures. Lit. proizv. no.1:6-8
Ja '63. (MIRA 1613)
(Pattermaking)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0

DUDNIKOV, Ye. O., CHISTYAKOV, S. P., and GERASIMOV, S. G.

"Avtomaticheskoye regulirovaniye kotel'nykh ustanovok," - Gosenergoisdat,
1950.

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0"

Dudnikov Ye. G.

Dudnikov Ye. G., "Determination of the Proper Setting for the Regulator From the Dynamic Characteristics of the Regulated Object and of the Regulator, Derived Experimentally," Avtomatika i telemekhanika, 1953, Volume XIV, No. 3, Pages 294-307, 10 figures; bibliography, 11 items.

DUDNIKOV, Ye. P. (Moskva); KRASSOV, I.M. (Moskva); TAGAIEVSKAYA, A.A. (Moskva);
TROFIMOV, V.P. (Moskva); BARKALOV, P.T., (Moskva).

Experimental determination of the dynamic characteristics of control
systems in industrial plants. Avtom. i telem. 14 no.4:418-423 Jl-Ag
'53. (MIRA 10:3)

(Automatic control)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411430008-0"

193 *Appendix E* The long-term effects of the two
processes of control according to the type of the
members of the system based by structures.

An expression of appreciation extends to all who have
cooperated, especially to the expressmen, who
deserve credit for the success of the exhibition.

The second approach is given at a meeting of the working group on climate change which is based on the following statement. In order to facilitate consideration of the consequences of projected changes by the year 2050, it is proposed that the experiments already mentioned take place in the context of the general adaptation strategy.

The methods of extracting the qualitative characteristics of the reaction of the reaction to characteristics of the reaction. The method is based on comparison of characteristics with the results of the type of reaction. Qualitative methods have been developed for the reaction of the reaction to the reaction of the reaction.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0"

DUDNIKOV, Yevgeniy Georgievich; ARMAND, A.A., redaktor; LARIONOV, G.Ye.,
tekhnicheskiy redaktor.

[Principles of the automatic control of heating processes] Osnovy
avtomaticheskogo regulirovaniia teplovых protsessov. Moskva, Gos.
energ.izd-vo, 1956. 264 p. (MLRA 10:4)
(Automatic control) (Power engineering)

DUDNIKOV, N.G., redaktor; RUSHCHINSKIY, V.N., redaktor; OZERSKIY, V.A.,
redaktor; LARIOMOV, G.Ye., tekhnicheskiy redaktor; MEDVEDEV, L.Ya.,
tekhnicheskiy redaktor

[Automation for thermal electric power plants. Translations]
Avtomatizatsiya teplovых электростанций. Perevody statei pod
red. N.G.Dudnikova i V.N.Rushchinskogo. Moskva, Gos.energ.izd-vo.
Pt. 1. [General problems of automation] Obshchie voprosy avtomati-
zatsii. 1957. 31 p. Pt.2. [Automation for boiler installations]
Avtomatizatsiya kotel'nykh ustavovok. 1957. 71 p. (MLRA 10:8)
(Electric power plants) (Automatic control)

DUDNIKOV, Ye. G.

MINITSKIY, V.V. [deceased], doktor tekhn. nauk, prepodavatel'; SOLODOV,
Ye.Ia., doktor tekhn. nauk, prepodavatel'; LEBEDEV, P.D., doktor
tekhn. nauk, prepodavatel'; GIMMEL'FARB, M.L., kand. tekhn. nauk,
prepodavatel'; LAVROV, N.V., doktor tekhn. nauk, prepodavatel';
IVANTSOV, G.P., kand. tekhn. nauk, prepodavatel'; GOLOUBKOV, B.N.,
kand. tekhn. nauk, prepodavatel'; SHERSTYUK, A.N., kand. tekhn.
nauk, prepodavatel'; NIKIFOROV, S.P., kand. tekhn. nauk, prepodavatel';
CHISTYAKOV, S.P., kand. tekhn. nauk., prepodavatel'; DUDNIKOV, Ye.G.,
doktor tekhn. nauk, prepodavatel'; BAKIYSTOV, A.M., kand. tekhn.
nauk, prepodavatel'; VENRA, M.I., kand. tekhn. nauk, prepodavatel';
GERASIMOV, S.G., prof., red.; KAGAN, Ya.A., dots., red.; AYZENSHTEAT,
I.I., red.; VORONIN, K.P., tekhn. red.; LARIONOV, G.Ye., tekhn. red.

[Heat engineering handbook] Teplotekhnicheskii spravochnik. Moskva,
Gos. energ. izd-vo. Vol.2. 1958. 672 p. (MIRA 11:10)
(Heat engineering)

28(1)

PHASE I BOOK EXPLOITATION SOV/2704

Dudnikov, Yevgeniy Georgiyevich, Doctor of Technical Sciences

Nekotoryye problemы automatizatsii (Some Problems of Automation) Moscow,
Izd-vo "Znaniye", 1959. 30 p. (Series: Vsesoyuznoye obshchestvo po
rasprostraneniyu politicheskikh i nauchnykh znanii. Seriya IV, 1959,
no. 20) 47,000 copies printed.

Sponsoring Agency: Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh
i nauchnykh znanii.

Ed.: T.F. Isalankina; Tech. Ed.: Ye.V. Savchenko.

PURPOSE: The booklet is intended for the general reader.

COVERAGE: This booklet describes in general terms the levels of automation
attained in the power and petroleum processing industries and in ferrous
metallurgy. Theoretical and practical aspects of the means of automation
are briefly discussed, emphasizing nomenclature and functions. Also
covered are automation of switching operations, intermittent automatic
control systems, controlling computers, and data transfer. No personalities

Card 1/3

Some Problems of Automation

SOV/2704

are mentioned. There are 13 Soviet references.

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Petroleum processing industry	7
Ferrous metallurgy	8
Radical Improvement of Technological Processes	9
Improvement of Automation Means and Expansion of Nomenclature and Functions	12
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Automation of switching operations and automatic protection of equipment against accidents	26
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Some Problems of Automation	SOV/2704
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Appraisal of the Economic Efficiency of Automation	29.
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AVAILABLE: Library of Congress

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JG/mg
12-21-59

Dundalk, Md., Oct. 6.

ORDYNTSEV, Vyacheslav Mikhaylovich; SHEDLER, Yuliy Ivanovich; DUDNIKOV,
Ye.O., doktor tekhn.nauk, retsenzent; SELZHEV, M.A., kand.tekn.
nauk, red.; AKIMOVA, A.G., red.izd-va; SOKOLOVA, T.F., tekhn.red.

[Automatic control and automatic controllers of technological
processes] Avtomaticheskoe regulirovanie i avtomaticheskie regu-
liatory tekhnologicheskikh protsessov; osnovy teorii. Moskva, Gos.
nauchno-tekn.izd-vo mashinostroit.lit-ry, 1960. 504 p.
(MIRA 14:3)

(Automatic control)

S/569/61/006/000/002/008
D201/D303

AUTHOR: Dudnikov, Ye. G. (USSR)

TITLE: Determining optimum adjustments of industrial automatic control systems from experimentally obtained fundamental data

SOURCE: International Federation of Automatic Control. 1st Congress, Moscow, 1960. Trudy. v. 6. Avtomatizatsiya proizvodstvennykh protsessov; khimiya, neftepererabotka, teploenergetika, metallurgiya. Moscow, 1961, 315-325

TEXT: This is a short survey of problems related to the analysis and setting of automatic control systems which, owing to the advent of analogue computers and of self-checking and self-adjusting systems, tend to be over-simplified. Determination of fundamental design data of automatic control systems is first considered. Three classes of methods of experimental analysis of industrial automatic control systems are considered: a) Methods based on artificial excitation of the system by non-periodic and periodic signals,

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D201/D303

Determining optimum adjustments ...

whose energy is much higher than that of noise in the system; b) methods based on the artificial excitation of the system by sinusoidal signals, having energy of the same order as that of noise; c) methods which do not require any artificial excitation of the system and which use the natural fluctuations of its output quantities in the process of normal operation. The data thus obtained should serve to obtain an approximate differential equation of the analyzed channel or system. If the fundamental data are given in analytical form, their further use is made much easier. The characteristics of industrial controlled systems and those of automatic control are considered next. The modern controlled industrial processes are complex, non-linear dynamic systems with distributed parameters and interdependent controlled quantities. From the point of view of difficulties in analyzing them they may be divided into the following conditional categories: Simple controlled objects - the transfer of functions of which have only real zeros and poles. Objects with explicit feedback and complementary couplings, positive or negative, with or without delay. Objects having a special structure, especially difficult to automatize. The experimental technique of

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D201/D303

Determining optimum adjustments ...

modern system analysis makes it possible to simulate all possible forms of the automatic control processes to a high degree of approximation. The leading principle of design of automatic control systems for complex industrial processes with several interconnected controlled quantities is the principle of invariance, and specifically the Voznesenskiy principle of automatic control. The Voznesenskiy principle makes it possible to divide the fundamental automatic control system into separate systems with one controlled quantity only. Partially autonomous systems are sometimes useful. The condition for an autonomous (in the Voznesenskiy sense) system reduces to the requirement that the system matrix be diagonal. The autonomy conditions may be reduced to a form in which the adjustments of compensating regulators are independent of those of main regulators, so that such a system may be called a structurally optimum system of automatic control. If an automatic control system has n controlled quantities and n controllers, an optimal autonomic control system design will be composed of two independent parts: Determination of dynamic characteristics of $(n^2 - n)$ compensating regulators and then of optimum adjustment of n basic controllers of n



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Determining optimum adjustments ...

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D201/D303

separate automatic control systems with one quantity to be controlled. The conditions when autonomic systems cannot be realized are discussed and finally two methods of approach to the systems which have n interdependent quantities controlled by n interdependent controllers are considered. One method consists in that the considered system of equations of the closed-loop system is solved consecutively with respect to every controlled quantity and the second in which an originally open-loop system is gradually made a closed one. It is stated in conclusion that the statistical methods used in this field should result in further progress in this field of investigations and that the problem of noise is as yet little known. There are 18 Soviet-bloc references.

Card 4/4

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0

BALAKIREV, V.S.; DUDNIKOV, Ye.G.; KLOKOV, Yu.L.; MASLENNIKOV, I.M.;
TSIRLIN, A.M.

Solving some problems of automatic control by means of the
analogue digital computer. Trudy MIKHM 25:3-17 '63.

(MIRA 17:6)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0

GADSHIYEV, M.Yu.; GUL'KO, P.B.; DZHELYALOV, A.R.; DUDNIKOV, Ye.Ya.;
KAZAKOV, V.D.; LITOYCHENKO, I.A.; NOEKIN, K.B.; PROKHOROV, N.L.

Seventh conference of young scientists of the Institute of
Automatic and Remote Control of the Academy of Sciences of the
U.S.S.R. Avtom. i telem. 21 no.9:1326-1331 8 '60. (MIRA 13:10)
(Automatic control—Congresses)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0"

DUDNIKOV, Ye.Ye. (Moskva)

A problem on parametric linear programming. Izv. AN SSSR. Otd.
tekhn. nauk. Tekhn. kib., no.1:34-41 Ja-F '63. (MIRA 16:7)

(Linear programming)

ACCESSION NR: AP4044828

8/0280/64/000/004/0091/0103

AUTHOR: Rybachov, M.V.(Moscow); Dudnikov, Ye. Ye.(Moscow)

TITLE: A solution of the problem of minimizing development costs by simulation

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 4, 1964, 91-103

TOPIC TAGS: development cost, cost minimization, simulation, electronic simulation, analog computer, PERT-COST method, linear simulation

ABSTRACT: Possible application on the PERT-COST method using electronic simulation is considered, a curve is found for the dependence of the cost of an optimum project of its duration, and the parameters for the net of an optimum project are determined. Block diagrams and oscilloscope traces for a simple problem are first shown, and then the method is extended to the case where cost and duration of an operation are described by quadratic, convex functions. The total cost of the project is then also convex and Pyne's method may be used without requiring an increase in equipment as compared with the linear case. It is necessary to reduce the overall practical problem, involving many operations, for piecewise solution, the problem being broken down into subproblems of lower dimensionality. The project can also be divided into subprojects, each then

1/3

-Cont-

ACCESSION NR: AP4044828

treated as a single operation. Block diagrams and derivations for both these methods are given as examples. The authors conclude that PERT-COST problems including up to several hundred operations can be solved by linear simulation. "The examples considered were solved on the EMU-8 computer by V. F. Kondakov and N. G. Gol'denberg." Orig. art. has: 9 figures and 34 formulas.

ASSOCIATION: none

SUBMITTED: 27 Feb 84

ENCL: 00

SUB CODE: 1E

NO REF Sov: 003

OTHER: 004

2/2

Card

WTFD 100-1

A P S M D D K

5-198-1

17

Mr. M. V. (Moscow) Dzhaparov

Direct method of Lyapunov

scanning

The International Technical Research

Center

Direct Lyapunov method, general case

part

100-2

method suggested for solving

problems

of the form

the direct Lyapunov method

is considered

method suggested for solving

problems

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0

Subject: [redacted]

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 10-12-2010 BY [redacted]
EXPIRATION DATE [redacted]
REF ID: A6570000000000000000000000000000

Language:

ENGLISH

MA

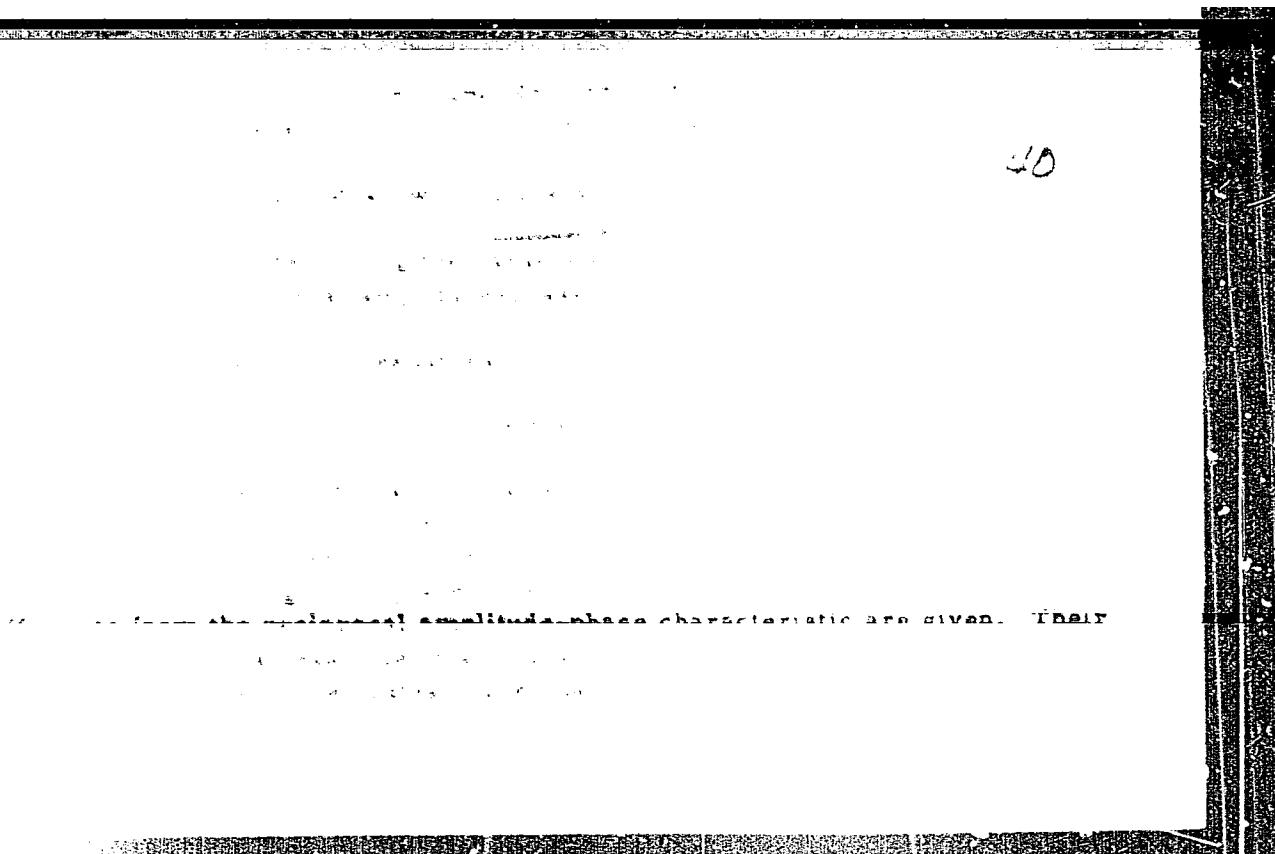
OTHER [redacted]

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0"

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CIA-RDP86-00513R000411430008-0



APPROVED FOR RELEASE: 08/25/2000

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CIA-RDP86-00513R000411430008-0

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0"

L 3195-66 ENT(d)/T - IJP(c)

ACCESSION NR: AP5012756

UR/0020/65/161/006/1289/1290 3

Author: M. V. Didenkov, Ye. Ye.

AUTOMATING ALGORITHMS

ABSTRACT This problem of nonlinear programming is considered.

REFERENCES

1. Didenkov, M. V.

2. Didenkov,

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0

MISSION NR AP5012756

3

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0"

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BY THE LIBRARIAN

17. *Myosotis* (L.) *lutea* (L.) *var.* *lutea*

Table 1. Change of potential along one of the axes of the rectangular domain.

Figure 18. Turbulent flow, pressure distribution in a wind tunnel separator.

The voltage-current characteristics of a plasma arc of variable length were investigated experimentally under stable-arc conditions. The results are presented in the following section.

19. 1. 1986

L 5381-66

ACC NR: AP5027285

J

Voltage versus length curve shows that θ depends on E^2 , current I , and G .
With the same flow rate, θ increases with E^2 .

$$\theta = -e^2 (3180 - 14.87 + 0.073/I) \text{ rad}^{-1}$$

where $1900 \leq E$ (volts/m) ≤ 2500 , I is in amps, and G in kg/sec. The weak dependence of θ on the flow rate is explained by the fact that θ is proportional to the ratio of current density to the acc. (e.g. $\theta \propto I/G \propto 1/\text{kg sec}^2$).

W. T. H. AT&T LABS., MURRAY HILL, NEW YORK CITY

BC
Card 2/2

REF ID: A65266
ATT (1/247) /EP (2/246) DDCI - AT
ACC NR. A/P6003012

SOURCE CODE: UR/0288/65 '000 '001/0056/0062

ANALYST: Dr. J. R. L. Saxon, Jr.

INFO: Institute of Theoretical and Applied Mechanics, Siberian Branch, AN SSSR,

TITLE: Investigation of a plasmotron with an interelectrode insert

SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya tekhnicheskikh nauk.
Nauka i zhizn. No. 62

TOPIC TAGS: plasma jet, electrode, electric arc

ABSTRACT: Results are reported of an experimental investigation of a plasmotron plasma jet in which cold air pumped into the gap between the insert and the output electrode was used as an insulator. As the effect of a single current was found to be small, the current was increased by a factor of 10. The current density, the temperature and the air-enthalpy increase were measured as well as a current-voltage characteristic of the nonselfmaintaining discharge between the

UDC 533.9.07 533.9.082.7

ACC NR AP6002012

and the 4th insert. It is found that the 4th insert

Figures and formulas.

TO: STORM DATE: 9 JUN 1968 TORONTO - 1000Z 10 JUN 1968

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411430008-0"

L 2762-66 ENT(d)/ENT(m)/EFF(c)/EMP(v)/EMP(j)/T/EMP(k)/EMP(h)/EMP(l) MM/RM

APPLICATION NR: AFSO21582

JP/100-14-10011/0054/0054

Vorob'ev, Yu. V., Kalinovskiy, N. I.

(Soviet Union
Sov. S.S.R. (USSR))

TITLE: Device for determining by a tearing method the bonding strength and defects of cementing sheet rubber with metal. Class 2x, No. 172442

PUB: Byulleten' izobreteniij i tovarnykh znakov, no. 17, 1965, 54

TOPIC TAGS: rubber, stripping test, metal bonding

ABSTRACT: This Author Certificate presents a device for determining the bonding strength and defects of cementing sheet rubber with metal. The device consists of a base 1, a handle 2, a lever 3, a contact spring 4, a contact 5, a switch 6, a circuit, and a spring-loaded cylinder 7. The base 1 has a rim with several slots, see Fig. 1. The handle 2 is attached to the lever 3. The lower part of the base of the lever 3 is provided with a contact 5 and a contact spring 4. The contact 5 is attached to one end of the contact spring 4 and is situated under the spherical bearing 8. Orig. art. has 1 diagram.

Card # 2

L 2762-66

ACCESSION NR: AP5021582

ASSOCIATION: Organizatsiya gosudarstvennogo komiteta po sudostroyeniyu (Organization of the State Committee for Shipbuilding)

SUBMITTED: 23Mar64

ENCL: 01

SUB CODE: IE, MT

NO REF Sov: 000

OTHER: 000

Card 2/3

L 2762-66

ACCESSION NR: AP5021582

ENCLOSURE: 01

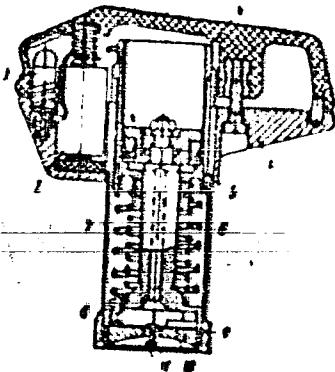


Fig. 1.

1- base of lever frame; 2- dry cell; 3- control electric lamp;
4- spring-loaded cylinder; 5- piston; 6- shaft; 7- case;
8- contact; 9- bushing; 10- flat contact spring; 11- regulating
valve

Card 3/3

17

L 21211-65 ENT(u)/REF(u)/REF(u)-2/REF PR-b/PR-b/PR-b DM

ACCESSION NR: AP5001286

S/0089/64/017/006/0448/0432

AUTHOR: Sinev, N. M.; Krasin, A. K.; Bychkov, L. F.; Blokhin, O. L.;
Broder, D. I.; Gabrusev, V. N.; Dvinskoy, Yu. V.; Zhiltsov, V. A.; Kopiev,
M. A.; Kolov, A. P.; Lantsov, M. N.; Lisochnik, G. A.; Merslikin, G. A.;
Morozov, I. G.; Komarov, A. Ya. (deceased); Oreshkov, Yu. I.; Sargoyev, Yu. A.;
Slyusarev, P. N.; Ushakov, G. M.; Fedorov, N. V.; Chernyay, V. Ya.; Shmelev,
V. M.

TITLE: Small-size atomic electric power installation TES-3

SOURCE: Atomnaya energiya, v. 17, no. 6, 1964, 448-452

TOPIC TAGS: small atomic power installation, portable atomic power installation, nuclear reactor, electric power generation/TES-3 reactor

ABSTRACT: The paper is a summary of the SSSR report #310 at the Third International Conference on Peaceful Uses of Atomic Energy in Geneva, 1964. It describes a movable small-size atomic electric power installation with the water cooled and moderated TES-3 reactor (under 10,000 kw). It consists of four

Card 1/2

L 20211-65
ACCESSION NR: AP6001266

blocks each of which was assembled at the manufacturing plant, and which are placed on four self-propelled flatcars on caterpillar tracks. No housing is required for the installation; the only local preparation needed is the radiation protection. The results with a demonstration model show a satisfactory agreement between the theoretically expected and actually obtained parameters of the installation. Orig. art. has: 4 figures

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00 SUB CODE: NP

NR REF Sov: 000 OTHER: 000

Card 2/3

DUDNIKOVA, A.F.; ZAGNIBORODOVA, Ye.N.; KOCHKAREVA, A.V.

Life span of fleas of the genus *Xenopsylla*, the carriers of plague
in nature. Izv. AN Turk. SSR. Ser. biol. nauk no.4:63-68 '64.
(MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut "Mikrob" i Turk-
menskaya protivochumnaya stantsiya.

KONDRAZHKINA, K.I.; DUBNIKOVA, A.E.

Comparative analysis of the intensity of oxygen requirement by
fleas of various species. Zool. zhur. 43 no.12:1874-1876 '64
(MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy protivochernyyj institut
"Mikrob", Saratov.

DUDNIKOVA, I. P.

AID P - 2554

Subject : USSR/Engineering

Card 1/1 Pub. 110-a - 6/13

Author : Dudnikova, I. P., Eng.

Title : Graphical determination of regulator settings in accordance with frequency characteristics of regulated sections

Periodical : Teploenergetika, 6, 28-32, Je 1955

Abstract : The construction of phase-amplitude characteristics on the basis of experimental data is discussed. The setting of the regulator corresponding to the given limits of stability and the degree of damping is presented and illustrated with diagrams. Four diagrams. Three Russian references, 1945-1953.

Institution: All-Union Heat Engineering Institute

Submitted : No date

DUDNIKOVA, I. P.

AID P - 5004

Subject : USSR/Engineering

Card 1/2 Pub. 110-a - 6/17

Authors : Davydov, N. I., Kand. Tech. Sci., I. P. Dudnikova,
S. G. Dudnikov, B. N. Mel'nikov, Engineers

Title : Methods of determining the frequency characteristics
of industrial control objects.

Periodical : Teploenergetika, 9, 35-42, S 1956

Abstract : Frequency characteristics are often considered in the
investigations of the industrial installation performance
and in the solutions of complicated problems of automatic
control. The methods described here for determining the
frequency characteristics are based on the excitation of
oscillations in a closed system of automatic control.
The oscillations start by a harmonic signal at the control
input. An example of the use of this method is presented
for testing the dynamics of an once-through boiler.
10 diagrams. 8 references.

AID P - 5004

Teploenergetika, 9, 35-42, S 1956

Card 2/2 Pub. 110-a - 6/17

Institution : All-Union Heat Engineering Institute and Moscow
Regional Power System Administration.

Submitted : No date

SHVARTS, A.L., kand.tekhn.nauk; DIL', E.P., inzh.; DUDNIKOVA, I.P., inzh.;
MADIROV, I., inzh.

Study of transient processes in a once-through type boiler with super-critical parameters. Teploenergetika 10 no.4:35-41 Ap '63.
(MIRA 16:3).

1. Vsesoyuznyy teplotekhnicheskiy institut.
(Boilers)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0

DUDNIKOVA, K.T.; SAMOYLOV, O.Ya.

Solubility of gypsum in aqueous solutions of salting-out agents. Radiokhimiia 5 no. 6:683-686 '63. (MIRA 17:7)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0"

SAMOYLOV, O.Ya.; RABINOVICH, I.B.; DUDNIKOVA, K.T.

Effect of small additions of a second component on the
structure of liquids. Zhur. strukt. khim. 6 no. 5:768-770
S-0 '65. (MIRA 18:12)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.
Kurnakova AN SSSR i Gor'kovskiy gosudarstvennyy universitet
imeni N.I.Lobachevskogo. Submitted June 19, 1965.

ACCESSION NR: AT4040810

S/3099/62/000/001/0234/0241

AUTHOR: Bronovitsky, V. Ye.; Usmanov, Kh. U.; Dudnikova, L. G.

TITLE: The production of liquid lignin-furfural resin and pressed materials based thereon

SOURCE: AN UzSSR. Institut khimii polimerov. Fizika i khimiya prirodnykh i sinteticheskikh polimerov, no. 1, 1962, 234-241

TOPIC TAGS: pressed polymer, fibrous polymer, synthetic fiber, lignin, hydrolyzed lignin, lignin furfural resin, resin, furfural resin, cotton lignin, phenolic resin, phenolic formaldehyde resin

ABSTRACT: The natural polymer lignin has many possible industrial uses, but its structure is still not completely understood. In the present paper, the authors discuss the hydrolysis of cotton lignin with 15% alkali, the possibility of obtaining liquid and solid meltable resins, suitable for the manufacture of pressed materials, and the technique for pressing products from lignin-furfural resin and fibrous fillers. The authors found that hydrolysis of cotton lignin with 15% NaOH at a lignin: alkali ratio of 1:8 for 1.5-2 hours at 170C produced the highest amount of water-soluble compounds and small amounts of sediment. Prolongation of this

Card 1/3

ACCESSION NR: AT4040810

process caused polycondensation of the water-soluble products. After alkali hydrolysis the material was cooled to 70C, followed by addition of furfural to a lignin: furfural ratio of 1:5 based on the dry weight of lignin. The polycondensation of the mixture lasted 65-90 minutes, after which it was cooled to 45 - 50C and acidified with 20% HCl to a weakly acid solution. The precipitated resin was washed with water, and after cooling it was ready for the preparation of fibers. The technology developed for the preparation of a compressible product was as follows: resin with a moisture content of 23-27% was put in rollers and mixed with a saturated solution of urotropine. A cyanide-impregnated foam was then added and the mixture was rolled to a thickness of 4-5 mm at 5-60C for 16-15 minutes. If there was more than 3% moisture, the mixture was dried for 2-3 hours at 60C. To decrease the water-absorbing properties and improve the physico-mechanical properties, the mixture was mixed with rubber or phenolic and urea-formaldehyde resins. The best results were obtained with the addition of 15% (calculated on the basis of dry weight) of phenolic-formaldehyde resin No. 18. This decreased the water absorbing properties from 0.85 to 0.5 and increased the compressive strength from 1250 to 1500 kg/cm². Orig. art. has: 1 figure and 2 tables.

ASSOCIATION: Institut khimii polimerov AN UzSSR (Institute of Polymer Chemistry, AN UzSSR)

2/3

ACCESSION NR: AT4040810

SUBMITTED: 00

DAVIN, CL: 140.161

ENCL: 00

SUB CODE: OC, MT

NO REF SOV: 013

OTHER: 005

Card 3/3

MITKALEV, B.A.; IOAKIMIS, E.G.; DUDNIKOVA, R.V.

Using filtration and coagulation to purify waste waters. Trudy Bash
NIINP no.5:206-211 '62. (MIRA 17:10)

Closed cycle in the water supply of the barometric condenser -
atmospheric and vacuum distillation apparatus. Ibid. 1211-217

DAKIMIS, E.G., DUDNIKOVA, R.V., BURMISTROVA, M.P.

Ricochemical purification of waste waters at low temperatures.
Neftaper. i neftakhim. no.1:21-23 '65. (MIRA 18:6)

17. Bashkirskiy nauchno-issledovatel'skiy institut po pererabotke
nefti.

L 22670-66 SW(2)/A W8

RECEIVED - 1985

biochemical purification of waste waters at a temperature of

SOURCE: Neftepererabotka i neftekhimiya, no. 1, 1965, 21-23

TOPIC: Water purification, petrochemistry, industrial waste, biochemistry

The biochemical purification of a mixture of petroleum-containing waste waters and waste waters from petrochemical production (fatty acids and synthesis)

through a buffer pool at a water, wastewater ratio of 1:1.5 at practically the same rate as at 10:1. At an activated sludge concentration of 2.5-3.1 g/l, an air consumption of

and an aeration time of 5 min, the oxygen utilization capacity

is 1.2-1.3 g/l, and the organic load is 1.5-1.7 g/l.

In the presence of a buffer pool, the organic load can be increased

without increasing the oxygen consumption, which is important in terms

of the economy of the oxygen supply system and the cost of the air tanks.

The reaction to the organic load is

DUDNIKOVA, T.A.; MIKHAYLOV, V.M.

Probability of beta decay allowing for variations in wave
functions of light nuclei in the nuclear region. Izv. AN
SSSR. Ser. fiz. 30 no.1:185-189 Ja '66.

(MIRA 19:1)

DUDNITSEV, L. M.

Cand Tech Sci - (diss) "Aerodynamic study of the distribution of ventilation air through perforated supporting ceiling." Moscow, 1961. 14 pp; (Academy of Construction and Architecture USSR, Scientific Research Inst of Sanitary Technology); 250 copies; price not given; (KL, 5-61 sup, 189)

DUDOVSKIN, P.P. (Kalinin); ZHELTUKHIN, D.V. (Leningrad);
VLADIMIROV, S.V. (Moskva); DMITRIYEVSKIY, Yu.D. (Vologda)

New books. Priroda 53 no.2:17,25,31,42 '64.
(MIRA 17:2)

DUDOCHKIN, Petr Petrovich

[Coltsfoot] Mat'-i Machekha. Moskva, Gos.izd-vo med.
lit-ry, 1962. 37 p. (MIRA 18:10)

1-30152-66
ACC NR: XFO020329

SOURCE CODE: RU/0012/65/061/001/0087/0101

AUTHOR: Satmari, C. (Doctor; Colonel); Ionascu, A. (Doctor; Lieutenant colonel); ²²
Nastciu, I. (Doctor; Major); Dudoiu, Gh. (Doctor; Captain); Pop, A. (Doctor; Major) ^B

ORG: none

TITLE: Considerations on the biology of some germs isolated from pathological products at the central military hospital during 1960 to 1962

SOURCE: Revista sanitara militara, v. 61, no. 1, 1965, 87-101

TOPIC TAGS: penicillin, streptomycin, chloromycetin, erythromycin, neomycin, sulfa drug, bacteriology

ABSTRACT: The authors studied the resistance to antibiotics of some microbe strains isolated from various human products, the dynamics of this resistance, and some biologic features of the microbes in relation to the pathologic product, the provenance, and the sex of the patient. The antibiotics studied were penicillin, streptomycin, chloromycetin, aureomycin, erythromycin, sulfamide and neomycin; the microbes, the coli bacillus, haemolytic staphylococcus aureus, coliform bacillus, enterococcus, beta haemolytic streptococcus, proteus bacillus and pyocyanic bacillus. Orig. art. has: 19 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 001 / SOV REF: 002
Card 1/1 TM

BUDANOV, G.V., inzh., otv. za vypusk; DUDOLADOV, A.Ye., inzh., red.;
TYUREMNOV, I.S., inzh., red.; IFTINKA, G.A., red. izd-va;
MOCHALINA, Z.S., tekhn. red.

[Collection No.3 of standard district estimates for earthwork
and cultivation practices in water management construction]
Sbornik No.3. edinykh raionnykh edinichnykh rastsenok na zem-
lianye i kul'turtekhnicheskie raboty v vodokhoziaistvennom
stroitel'stve. Moskva, Gosstroizdat, 1962. 160 p.
(MIRA 15:5)

l. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam
stroitel'stva.

(Irrigation) (Drainage)

1970-8-252

70151628

Chen, A. G.; Tadolosov, I. P., et al.

UDC 537.515.72

Chemical properties of alkali metals by electron diffraction

Translators: V. T. and R. J.

Interpretation: Lithium, Sodium

Calcium, Copper

The practicability of Li, Na and Ca was shown that, using the method of shock-wave diffraction, the critical diameter and the critical compression were determined. The shock-wave velocity in Li, Na and Ca was investigated and in the case of shock-wave amplitudes of 10-15% the critical diameter was determined as against 10-12% which are derived on the basis

of the theory. In the experiments were used rotating cylindrical densities described by the method of rotation of sodium or calcium. The density was increased gradually. The

177-18182

... messages and with the present one
it was used 1200 Amphetamine
and 1000 mg. of Dextroamphetamine.
The amphetamine was injected
intramuscularly. The amphetamine
transition of normally 4 hours
to 2 hours, 40 minutes, and 40 seconds.

177-18182

1000 mg.

1200 mg. of Dextroamphetamine

intramuscularly

transition of

177-18182

1000 mg. of Dextroamphetamine

1200 mg. of Dextroamphetamine

177-18182

OTHER: C.

L 32210-66 ENT(1)/ENP(m)
ACC NR: AP6020795 (A)

SOURCE CODE: UR/0386/66/003/012/0483/0487

68
65
B

AUTHOR: Al'tshuler, L. V.; Bakanova, A. A.; Dudoladov, I. P.

ORG: none

TITLE: Peculiarities of shock compression of lanthanides

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu.
Prilozheniya, v. 3, no. 12, 1966, 483-487

TOPIC TAGS: lanthanide series, lanthanum, cerium, samarium, dysprosium, erbium,
second order phase transition, adiabatic compression, high pressure, critical
pressure, mechanical shock resistance

ABSTRACT: The authors report the first results of an investigation of the dynamic
compressibility of La, Ce, Sm, Dy, and Er up to 3.5 Mbar pressure. The shock-
compression parameters were obtained by the reflection method (L. V. Al'tshuler,
Uspekhi fiz. nauk v. 85, 197, 1965 and earlier) using apparatus described else-
where (ZhETF v. 38, 790, 1960 and Fiz. tverdogo tela v. 5, 279, 1963). The
directly measured quantities were the velocities d of the shock wave in the in-
vestigated metals. These were used to determine the mass velocities u , the shock
compression pressures P , and the degrees of compression σ . The $d-u$ plot of each
of the lanthanides, obtained from the experimental data, is represented with high

Card 1/2

L 32210-66
ACC NR: AP6020795 (A)

3

accuracy by two straight-line segments of different slopes. The slopes and intercepts of all the segments are determined and tabulated. The shock adiabats were also plotted for Sm, Dy, and Er, for which the change in slope of the d-u plot was most pronounced. The adiabats exhibit kinks near the critical pressures, indicating the presence of a second-order phase transition. The more gently sloping sections of the adiabats are probably determined by the compression of the external low-density 6S shells and by the simultaneously occurring redistribution of the electrons among the bands. The change in slope at the critical pressure signifies the completion of these processes and the formation of low-compressibility electronic configuration. A more complete interpretation of the data calls for calculation of the energy spectra of the compressed metals. The authors thank Corresponding Member of the Academy of Sciences SSSR, Professor N. P. Sazhin, as well as Engineers L. A. Dolomanov and V. M. Murav'yeva for interest and collaboration. Orig. art. has: 2 figures, 2 formulas, and 1 table.

SUB CODE: 20/ SUBM DATE: 25Apr66/ ORIG REF: 008/ OTH REF: 003

15
200

DUDOLADOV, L.S.

A method of solving the equation of elastic and thermoelastic equilibrium. Fiz.-tekhn. probl. razrab. pol. iskop. no. 5:34-42 '65. (MIRA 19;1)

1. Institut gornogo dela Sibirskogo otdeleniya AN SSSR, Novosibirsk.

LIPOVICH, A.L.; DUDOLADOV, Yu.A.

Moment of load and inherent stability of pipe laying cranes.
Stroi. truboprov. 8 no.8:12-13 Ag '63. (MIRA 16:11)

1. Spetsial'noye konstruktorskoye byuro Gasstroymashina
i Vsesoyuznyy nauchno-issledovatel'skiy institut po
stroitel'stvu magistral'nykh truboprovodov.

DUDOLADOV, Yu.A.; LIPOVICH, A.L.

Simplified method of determining the basic parameters of pipe
layers. Stroi. truboprov. 9 no.4:17-19 Ap '64. (MIRA 17:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po stroitel'stvu
magistral'nykh truboprovodov (for Dudoladov). 2. Spetsial'noye kon-
struktorskoye byuro "Gazstroymashina" (for Lipovich).

BB/GG/JXT/CZ 537
CAT(d)/EXP(c)/EXP(v)/T/EXP(k)/EXP(h)/EXP(l) I+(c)

BOOK EXPLOITATION

101
Dobertin, T.; Bittar, S.; Almeida, J.; Saloméia, R. *Rev. Bras. Cienc. MATERIAIS*, 1994, v. 19, p. 1-10.

application of electronic computers to production control (Priklyucheniye elektronnykh kompyuternykh sistem v upravlenii proizvodstvom).

Journal of the Royal Society of Medicine 1996, Vol. 89, pp. 66-67
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* FILE: automation, electronic computer, production control

At present, the Bank is extending loans of foreign assistance to
the following enterprises: the Moscow Institute of Chemical
Technology, the Moscow Institute of Technology, the Moscow Institute
of Radio Engineering and Electronics, the Moscow Institute of
Aeronautics, the Moscow Institute of Architecture, the Moscow Institute
of Agriculture, the Moscow Institute of Chemical Technology, the
Moscow Institute of Chemical Technology, the Moscow Institute
of Chemical Technology, the Moscow Institute of Chemical Technology,
and several Moscow enterprises.

Card 1/2

L 2922-66
A44048670

21

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I. Technical-economic planning with the application of electronic computers
Application of electronic computers in operations - - 46
Operation planning of series production - - 109
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Application of electronic computers in intramural accounting - - 218
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III. Questions of the economic feasibility of applying electronic computers
in automation control - - 493

S P 18: E

SUBMITTED: 3Jan64

MR REF SCV: J.L.

OTHER: DCO

Card 2/2

KOZLOVA, O., doktor ekol. nauk, prof.; BRODSKIY, G.; DUDORIN, V.;
MITIN, S.; NIKONOVA, L.; SALCHATIN, N.; BUDARINA, V., red.;
KIRSANOVА, I., mlad. red.; ULANOVA, L., tekhn. red.

[Use of electronic computers in production control] Primene-
nie elektronno-vychislitel'nykh mashin v upravlenii proiz-
vodstvom. [By] O.Kozlova i dr. Moskva, Izd-vo "Mysl", 1964.
508 p. (MIRA 17:4)

DUDOROV, A.A., imsh.

Erection of the K30-32B gantry crane using an E-1004 excavator crane and two S-80 tractors. Energ. stroi. no. 31:99-101 '62.
(MIRA 16:7)

(Cranes, derricks, etc.)

COL'TSOV, A.A.; DUDOROV, I.T.; KOLOMIETS, A.A.; RAZLUKINA,
M.L.; KURZINA, I.A., red.; CHICHEV, Yu.I., red.

[Vegetable farming in a mechanized vegetable-gardening
brigade; experience with A.L.Karputtseva's brigade
("Bolshevik" State Farm in Moscow Province)] Vozdelyvanie
ovoshchей v mekhanizirovannoi ovoshchevodcheskoi brigade;
opyt brigady A.L.Karputtsevoi (sovkhоз "Bol'shevik" Mo-
skovskoi oblasti) Moskva, Kolos, 1965. 134 p.
(MIRA 18:7)

DUDOROV, V., sud'ya respublikanskoy kategorii

Spartakiada at the finish. Radio no.7:10-12 J1 '65.
(MIRA 18:9)

1. Zamestitel' predsedatelya Moskovskoy gorodskoy Federatsii
radiosporta.

DUDOROV, V.V.; NEYMAN, M.B.; LUKOVNIKOV, A.P.

Oxidation of polypropylene at high oxygen pressures; temperature
and pressure dependence of induction periods. Plast.massy no.12:3-
7 '61. (MIRA 14:12)

(Propene)
(Oxidation)

DEVYATIKH, G.G.; ZORIN, A.D.; DUDOROV, V.Ya.; YEVZHELEVA, A.Ye.; SMOLYAN, Z.S.

Separation of bivinyl from the butane-butylene fraction by
extractive rectification. Zhur.prikl.khim. 35 no.7:1597-1601
Jl '62. (MIRA 15:8)

(Butadiene) (Butane) (Extraction (Chemistry))

TOPIC TAGS: See Topic Tag section above.

SEARCHED _____

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TOPIC TAGS: See Topic Tag section above.

SEARCHED _____

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APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0"

DUDOROV, V. Ya.; AGLIULOV, N. Kh.

All-Union Conference on the Preparation and Analysis of High-Purity Elements. Zhir. neorg. khim. 9 no.11:2680-2682 N '64
(MIRA 18:1)

LEVIT, G.T., inzh.; VTOROV, Ye.P., inzh.; MASLYAYEV, A.S., inzh.;
DUDOROV, Yu.D., inzh.

Burning of Ekibastuz coal in furnaces with hammer mills. Elek.
sta. 34 no.8:8-13 Ag '63. (MIRA 16:11)

LEVIT, G.T., inzh.; DUDOROV, Yu.D., inzh. ZAYDENTREGER, V.L., inzh.

Study of the grinding of Ekibastuz coal in hammer mills with shaft
and centrifugal separators. Teploenergetika 11 no.8:44-49 Apr '64.

(MIRA 18:7)

1. Gosudarstvennyy treat po organizatsii i ratsionalizatsii rayonnykh
elektrostantsiy i setey.

DUDOV, Todor

Problems of the distribution of labor wages between brigade members. Trud tseni 6 no. 2:23-35 '64.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0

DUDOV, S.A., inzh.

Mechanization of pipe cleaning and insulation. Stroi. truboprov.
6 no.9:21 S '61. (MIRA 14:9)

1. Treat Stavropol'sangazmontash, g. Stavropol'.
(Pipe)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0"

DUDOV, S.A., inzh.

Erection of vertical apparatus by turning around a hinge. Mont. i
spets. rab. v stroi. 24 no.4:5-7 Ap '62. (MIRA 15:7)

1. Trest Stavropol'sangazmontash.
(Towers)

DUBOV, Todor

Application of various forms of surcharges in a collective piece wage system. Trud tseni 6 no.4:50-57 '64.

DUDOV, Tudor

Computing the execution of labor norms in complex brigades.
Trud tseni 4 no.1:61-64 '62.

DUDOV, V.V., inzhener-mayor; MAKARENKO, I.M., kapitan tekhnicheskoy
sluzhby

Operating models of radio circuit elements. Vest. protivovosd.
obor. no.4:21-23 Ap '61. (MIRA 14:7)
(Radio circuits)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0

DUDOV, V.V., inzh.-maylor; MAKARENKO, I.N., kapitan tekhn.sluzhby

Models of oscillators. Vest protivovozd obor. no.9:28-31 S '61.
(MIRA 14:8)
(Oscillators, Electric)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0"

Dudnoy, P.

RYMAR, I.; KOLOMEYETS, D.; DUDNOY, P., gornyy master; KUDINOV, G., brigadir prokhodchikov, Geroy Sotsialisticheskogo Truda; LYSENKO, K., mashinist elektrovoza

More widespread use of new mining techniques. Mast.ugl.4 no.7:3-6
Jl '55. (MIREA 8:10)

1. Machal'nik shakhty no.3-5 "Sokologorovka" (for Rymar). 2. Machal'-nik uchastka no.6 (for Kolomeyets)
(Coal mines and mining)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0

DUDOCHKIN, Petr.

Notes of a naturalist. IUn. nat. no. 12:38 D '59
(Cats) (MIRA 13:3)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0"

DUDUCHKIN V. M.

Sokolov, G. I.
Results of the Competition for the Best Importing
Boguslavsk (Tver Oblast) as Lately as 1928
Sokolov, G. I.

REVIEWS: *Chemical & Metallurgical*, 1953, no. 7, pp. 17-31 (1953)

ANSWER

Grant 3/4 Observations from the "Galveston Game". 2) B. V. Delaney

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0"

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430008-0"

DUDOVKIN, V.M.

Improved switching handle for the lifting of glass and regulation
of the vacuum. Geod.i kart. no.2:64 F '60. (MIRA 13;6)
(Map printing)

DUDOLKINA, L.A.

DUDOLKINA, L.A.

Experimental data on fleas of house rodents as transmitters and
harborers of tularemia microbes. Izv. Irk.gos.protivochum. inst.
12:53-76 '54 (MIRA 10:12)

(FLEAS AS CARRIERS OF DISEASE)
(TULAREMIA) (PARASITES--MICB)

USSR / Forestry. Forest Cultures.

K

Abs Jour: Ref Zhur-Biol., No 7, 1958, 29576.

Author : Dudorev, M. A.

Inst : Saratovskiy Agricultural Institute.

Title : An Experiment to Study Sowing Schemes in Forest
Hotbeds.
(Opyt izucheniya skhem poseva na lesnykh pit-
omnikakh).

Orig Pub: Tr. Saratovsk. s.-kh. in-ta, 1957, 10, 230-236.

Abstract: No abstract.

Card 1/1

60

DUDOREV, M.A.

[Forest nurseries] Lesomeliorativnyi pitomnik. Izd.2., perer.
1 dop. Moakva, Gos.izd-vo sel'khoz.lit-ry, 1959. 214 p.
(Forest nurseries) (MIRA 13:9)

DUDORIN, V. I., kand.ekon.nauk

Using hard-alloy inserts in cold-upsetting dies. Vest.mash. 59
no.4:62-64 Ap '59. (MIRA 12:5)
(Dies (Metalworking))